

SOLNEO

EN

Gas fired condensing boiler

SGC 24 SOL



User Guide

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1 Introduction

1.1 Symbols and abbreviations

In these instructions, various markings and pictograms are used to draw your attention to particular information. In so doing, De Dietrich Thermique S.A.S. wishes to safeguard the user's safety, obviate hazards and guarantee correct operation of the boiler.

CRC: Communicating remote controller

CFC: Chlorofluorocarbon

DHW: Domestic hot water



Caution danger

Risk of injury and damage to equipment.

Attention must be paid to the warnings on safety of persons and equipment.



Important information

Information must be kept in mind to maintain comfort.



Reference

Refer to another manual or other pages in this instruction manual.

1.2 General

1.2.1 Manufacturer's liability

Our products are manufactured in compliance with the essential requirements of the various Directives applicable. They are therefore delivered with **CE** marking and all relevant documentation.

In the interest of customers, we are continuously endeavouring to make improvements in product quality. All the specifications stated in this document are therefore subject to change without notice.

Our liability as the manufacturer may not be invoked in the following cases:

- ▶ Incorrect use of the appliance.
- ▶ Faulty or insufficient maintenance of the appliance.
- ▶ Incorrect installation of the appliance.

1.2.2 Installer's liability

The installer is responsible for the installation and initial start up of the appliance.

The installer must respect the following instructions:

- ▶ Read and follow the instructions given in the manuals provided with the appliance.
- ▶ Carry out installation in compliance with the prevailing legislation and standards.

- ▶ Perform the initial start up and carry out any checks necessary.
- ▶ Explain the installation to the user.
- ▶ Warn the user of the obligation to check the appliance and maintain it in good working order.
- ▶ Give all the instruction manuals to the user.

1.2.3 User's liability

To ensure the optimum operation of your appliance, we strongly recommend that you abide by the following instructions:

- ▶ Read and follow the instructions given in the manuals provided with the appliance.
- ▶ Call on qualified professionals to carry out installation and initial start up.
- ▶ Get your fitter to explain your installation to you.
- ▶ Have the required checks and services done.
- ▶ Keep the instruction manuals in good condition close to the appliance.

This appliance is not intended to be used by persons (including children) whose physical, sensory or mental capacity is impaired or persons with no experience or knowledge, unless they have the benefit, through the intermediary of a person responsible for their safety, of supervision or prior instructions regarding use of the appliance. Care should be taken to ensure that children do not play with the appliance.

1.3 Certifications

CE identification no	CE-0085BQ0052
Type of connection	Chimney: B _{23P} - B ₃₃
	Forced flue: C _{13(x)} - C _{33(x)} - C _{43(x)} - C ₅₃ - C _{63(x)} * - C _{83(x)} - C _{93(x)}
Ignition	Automatic


* Except Belgium and France

(x) For Germany only


2 Safety instructions and recommendations

2.1 Safety instructions

2.1.1 Fire hazard

 **DANGER**
If you smell gas:

1. Do not use a bare flame, do not smoke, do not actuate electrical contacts or switches (doorbell, light, motor, lift, etc..).
2. Cut the gas supply.
3. Open the windows.
4. Evacuate the premises.
5. Call your fitter.

 **DANGER**
If you smell flue gases:

1. Switch the appliance off
2. Open the windows.
3. Evacuate the premises
4. Call your fitter

2.1.2 Risk of being burnt

 **DANGER**
Depending on the settings of the appliance:


- ▶ The temperature of the flue gas conduits may exceed 60°C.
- ▶ The temperature of the radiators may reach 95°C.

- ▶ The temperature of the domestic hot water may reach 65°C.

 **Avoid direct contact with the flame viewpoint.**

2.2 Recommendations

The installation and the first start-up must be performed by a qualified professional.


 **Only qualified professionals are authorised to work on the appliance and the instalation.**

- ▶ Regularly check the water pressure in the installation (minimum pressure 0.8 bar, recommended pressure between 1.5 and 2 bar).
- ▶ Keep the appliance accessible at all times.
- ▶ Never remove or cover labels and rating plates affixed to the appliance. Labels and rating plates must be legible throughout the entire lifetime of the appliance.

■ Aeration

The air inlet into the premises must in no event be obstructed, even partially.

■ Maintenance

 **Do not neglect to service the appliance:**
For completely safe and optimum operation, you must have your boiler regularly serviced by an approved installer.

The servicing and cleaning of the boiler and the sweeping of the flue gas pipe and the bleed pot must be done at least once a year by a qualified professional.

We recommend that you take out a maintenance contract.

■ Precautions against frost

The boiler is fitted with an antifreeze system. In the event of total shutdown of the heating in winter which may lead to the danger of freezing (switching off of radiators and current), we recommend using a correctly dosed anti-freeze product to stop the heating water freezing. Failing this, drain the installation completely (in all cases, consult your fitter).

3 Description

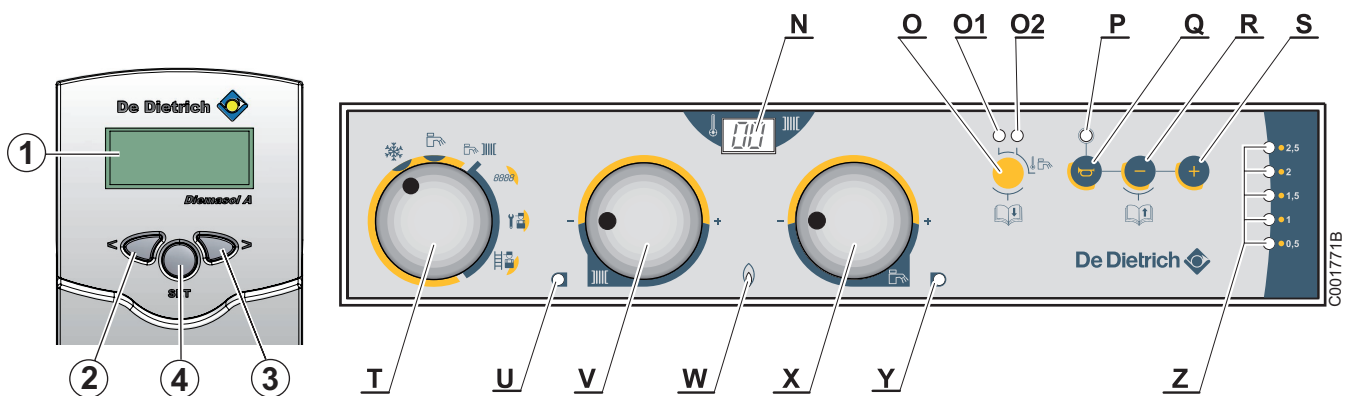
3.1 General description

The SGC 24 SOL solar column is a multi-energy unit which includes a gas-fired condensing boiler and a 200-litre solar domestic hot water tank in the same casing.







The boiler is preset in the factory to operate on natural gases H and E (Operating pressure: 20 mbar).

The boiler is fitted with a system to protect against overheating.

3.2 Control panel



Position	Key	Description
1	Alphanumeric LCD display	Displays the settings for the solar circuit.
2	<	Returns to the previous menu or reduces the value of a setting.
3	>	Moves to the next menu or increases the value of a setting.
4	SET	Allows the displayed parameter to be accessed and modified.
N	Temperature display	The display shows the temperature of the water in the domestic hot water heating outlet when there is a request for domestic hot water.
O	Domestic hot water temperature maintenance override button	<p>For SGC 24 SOL with Easymatic or Easyradio remote control:</p> <p>Pressing the button for 1 second makes it possible to override domestic hot water tank loading outside the time period programmed in the control unit up to midnight (indicator light O2 flash).</p> <ul style="list-style-type: none"> - Light O1 lit : The burner is ignited to reheat the domestic hot water tank. - Light O2 off : No override or programme running. - Light O2 lit : Comfort programme activated. <p>For SGC 24 SOL without remote control:</p> <p>Light O1 lit : The burner is ignited to reheat the domestic hot water tank.</p> <p>A power cut does not modify the selected operating mode.</p>
P	Safety shutdown light	Indicates an error in the boiler.
Q	Unlock button	To restart the boiler after safety shutdown.
R	Button	Used only in measurement 8888, installer and sweep mode.
S	Button	Used only in sweep mode .

Position	Key	Description
T	6-position switch	<ul style="list-style-type: none"> -  : Shutdown/antifreeze/vent. -  : Domestic hot water (Summer). -  : Heating and domestic hot water (Winter). -  : Measurement mode (Key to access the parameters reserved for the installer). -  : Fitter mode (Key to access the parameters reserved for the installer). -  : Sweeping mode (Key to access the parameters reserved for the installer).
U	"Heating" on light	The light is on when the heating/domestic hot water reversal valve is in the heating position and the circulator pump is operating.
V	Heating temperature setting	Adjustment range : 30 °C to 90 °C (Hard spot at 68°C).
W	Flame presence light	The light is on when the burner is operating.
X	Setting the domestic water temperature	Adjustment range : 40 °C to 60 °C (Hard spot at 55°C).
Y	"Domestic hot water" on light	The light is on when the heating/domestic hot water reversal valve is in the domestic hot water position and the circulator pump is operating.
Z	Pressure indicator	Indicates the pressure in the heating circuit from 0.5 to 2.5 bar.



3.3 Parameter display - Diemasol A solar regulator

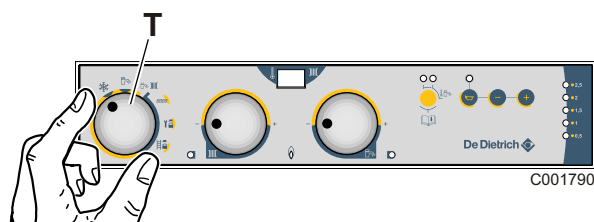
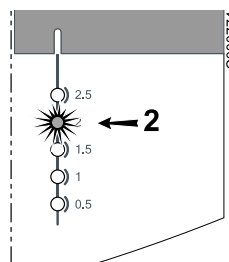
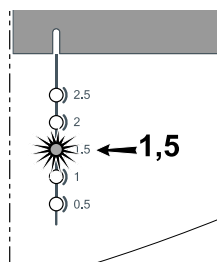
- To scroll the parameters, push on key < or >.

Abbreviation	Parameter	Range
TC	Collector temperature	[-50.0...+250.0°C]
TS	Tank temperature	[-50.0...+250.0°C]
kWh	Amount of heat	[0...9999 kWh]
PC	Pump regime	[0...100 %]
tc	Self-calibration time	[0...5] minutes
TR	Return temperature	[-50.0...+250.0°C]
TM	Additional temperature with S3 sensor only (optional)	[-50.0...+250.0°C]

4 Operating instructions

4.1 Start the boiler

- ▶ Check the water pressure in the installation several times a year.
If necessary, top up the boiler with water.
The water pressure in the installation must be between 1.5 and 2 bar.
- ▶ Open the gas valve.
- ▶ Set the 6-position switch **T** to  (summer mode) or  (winter mode).
- ▶ If using a room temperature thermostat or a communicating remote control, turn them to heating request.
- ▶
- ▶ The boiler will begin an automatic venting-programme (which lasts approx. 3 minutes) and will do this every time the power supply is isolated.
- ▶ The regulator starts an initialisation phase during which the LED flashes red and green. When initialisation is complete, the regulator changes to automatic mode. The factory settings for this mode give optimum performance with most installations.



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4.2 Description of the parameters

LED state:

Display	Action
Continuously green	Regulation operating normally (System Operating). Solar system Operating.
Continuously red	The installation is stopped. The solar collectors are not hot enough (parameter TC) to enable operation.
Flashing green/red	Initialisation phase
	The installation is in manual mode
	Maximum water tank temperature exceeded
	Maximum solar collector temperature exceeded
	Sensor fault
Off	Control system power fault

4.3 Changing the settings

4.3.1 Selecting the operating mode

- ▶ Set the 6-position switch **T** to the desired operating mode.

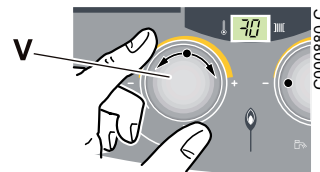
- : Shutdown/antifreeze/vent.
- : Domestic hot water (Summer).
- : Heating and domestic hot water (Winter).



4.3.2 Changing the heating temperature

- ▶ Set the temperature of the heating water using button **V**.

- Minimum = 30 °C
- Maximum = 90 °C
- Hard point = 68 °C



- ▶ The temperature set in shown on the display.

i If using an outside temperature sensor, the heating flow temperature is adjusted automatically.

4.3.3 Changing the domestic hot water temperature

- ▶ Set the domestic hot water temperature using button **X**.

- Minimum = 40 °C
- Maximum = 60 °C
- Recommended temperature = 55 °C (Hard point) to combine comfort and economy.



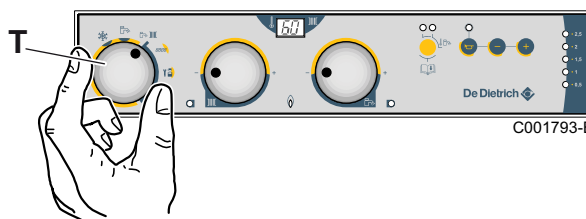
- ▶ The temperature set in shown on the display.

4.4 Stopping the boiler

- ▶ Set the 6-position switch **T** to (stop / antifreeze / vent).
The boiler goes into standby mode.
The display shows " .. ".

i In this operating scenario, the boiler and the domestic hot water tank are protected against the risk of frost.

! Do not shut down power to the control system or drain the heat-exchanging fluid.



The system is designed in such a way that no special precautions are necessary during long periods of absence in summer.

The Diemasol A solar control system protects the installation from overheating.

4.5 Prolonged absence

4.5.1 Switching off the appliance

If the central heating system is not used for a long period, we recommend switching the boiler off.

1. Switch the boiler off.

2. Cut the power supply to the boiler.

3. Close the gas valve.

4.5.2 Antifreeze protection



The boiler must be installed in a frost-free environment.

We recommend setting the boiler thermostat to a value off 10°C if using a classic installation.

If the temperature of the central heating water in the boiler falls too much, the integrated protection device switches itself on:


- If the water temperature is lower than 7°C, the circulating pump is activated.
- If the water temperature is lower than 3°C, the boiler is activated.
- When the water temperature is above 10 °C, the boiler is switched off and the circulation pump runs for another 15 minutes.

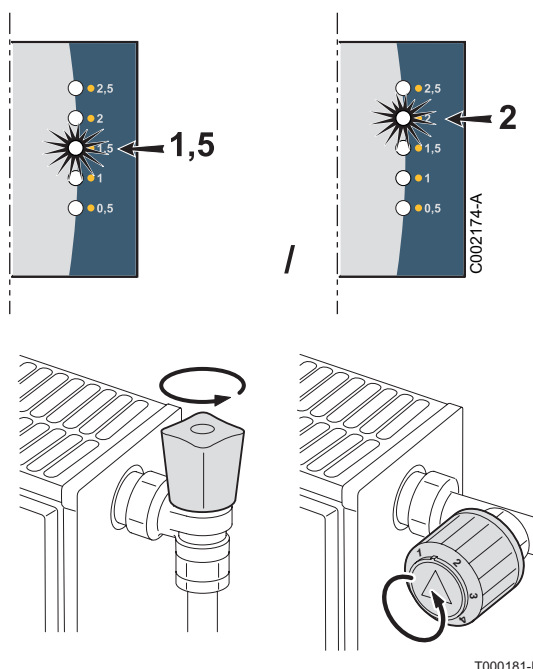
5 Checking and maintenance

5.1 General instructions


-  An annual inspection is compulsory.
-  We recommend that you take out a maintenance contract.
-  Maintenance operations must be done by a qualified professional.
-  Only original spare parts must be used.

5.2 Periodic checks

- ▶ Regularly check the water pressure in the installation (minimum pressure 0.8 bar, recommended pressure between 1.5 and 2 bar).
If the water pressure is too low, add more water to the installation (See Topping up the boiler with water).
- ▶ Carry out a visual check for the presence of any water leaks.
- ▶ Open and close the radiator valves several times a year (this prevents the valves from seizing up).
- ▶ Clean the outside of the boiler using a damp cloth and a light detergent.
-  Only a qualified professional is authorised to clean the inside of the boiler.



5.3 Topping up the boiler with water (If the option is connected)

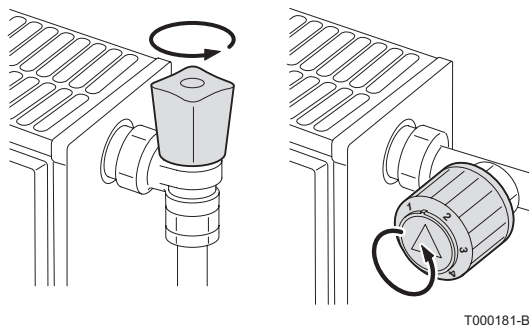
- ▶ Regularly check the level of water in the system and top up if required, taking care that cold water is not added suddenly into the boiler when it is hot.
This operation must be carried out several times per season ; if not, look for the probable leak and immediately fix it.
- ▶ Contact the fitter.
-  Do not drain the installation, except in cases of absolute necessity.

5.4 Bleeding the heating system

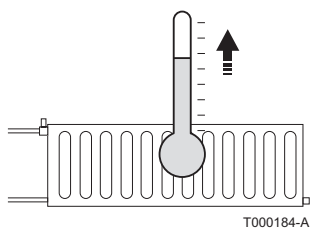
It is essential that you vent any air in the appliance, the ducts or the valves to prevent the noise annoyance likely to be produced during heating or water draw-off.

To do this, proceed as follows:

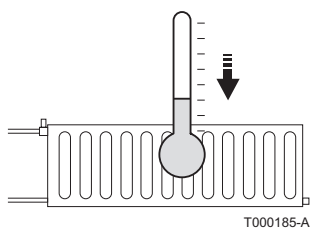
1. Open the valves on all radiators connected to the heating system.



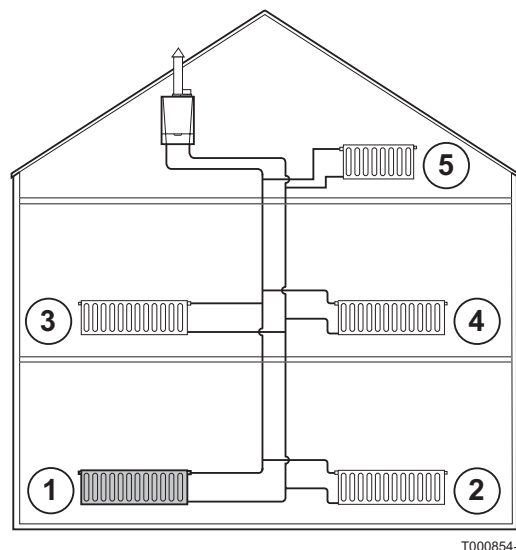
2. Set the heating set point to as high a temperature as possible.
3. Wait until the radiators are hot.



4. Switch the boiler off.
5. Wait around 10 minutes until the radiators are cold.



6. Bleed the radiators.
Start with the lower floors.



7. Open the bleed connection using the bleed key, keeping a rag pressed against the connection.
8. Wait until water begins to come out of the bleed valve, then close the bleed connection.

⚠ The water may still be hot.

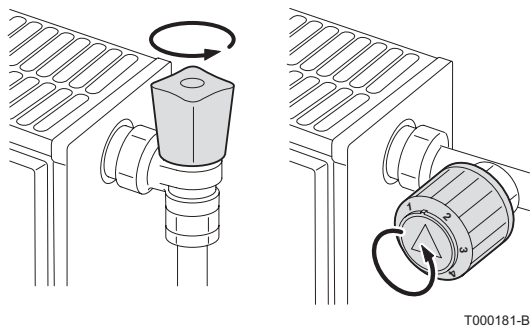
9. Turn the boiler on.
10. Check the pressure of the installation.
If the water pressure is too low, add more water to the installation (See Topping up the boiler with water).
11. Set the heating set point.

5.5 Draining the installation

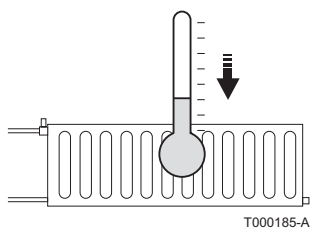
It may become necessary to empty the water from the heating system when the radiators have to be replaced, should there be a major water leak or a risk of frost.

To do this, proceed as follows

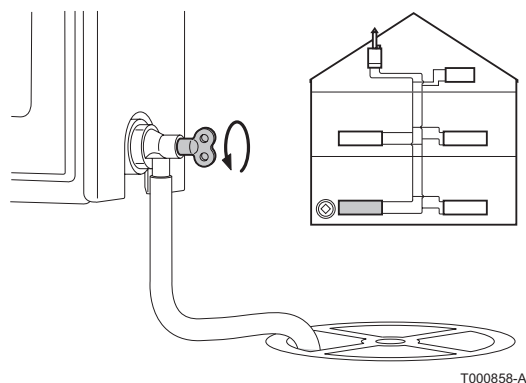
1. Open the valves on all radiators connected to the heating system.



2. Cut the power supply to the boiler.
3. Wait around 10 minutes until the radiators are cold.



4. Connect an evacuation hose to the plug located at the lowest level.
5. Place the end of the hose in a discharge sump or in a place where the water discharged from the valve can not do any damage.



6. Open the filling/draw-off valve on the heating system.

⚠ The water may still be hot.

7. When no more water comes out of the drainage plug, close the drainage valve.

6 Troubleshooting

6.1 Breakdown codes

In the event of a fault, the display indicates an alarm message by alternately showing **AL** and a code from which the type of fault can be determined.


6.1.1 Safety alarms

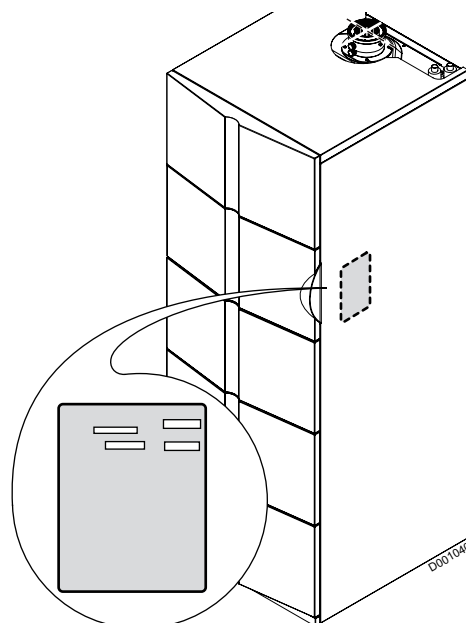
Alarm code	Meaning
cA	Igniter fault
cl	Ionization error
tS	Overheating alarm
PA	No water
cd	Communication error with the safety control box (card side)
c8	Internal error safety control box
A1	Communication error with the safety control box (box side)
tH	Communication with the communicating remote interrupted

6.1.2 Sensor alarms

Alarm code	Meaning
40	Fault external sensor
41	No outside sensor on start-up if outlet sensor B present
42	Fault outlet sensor B
50 or 51	DHW outlet sensor error DHW
58 or 59	Fault electronic manometer

6.2 Before contacting the installer

- ▶ Try to restart the boiler once by pressing the key **Q**  on the control panel.
- ▶ If this fails after a second try to restart, inform the professional responsible for maintaining the boiler.
- ▶ Note the following information on the appliance's rating plate:
 - Boiler type
 - Date of manufacture
 - Serial no. of the appliance
 - Type of gas used.



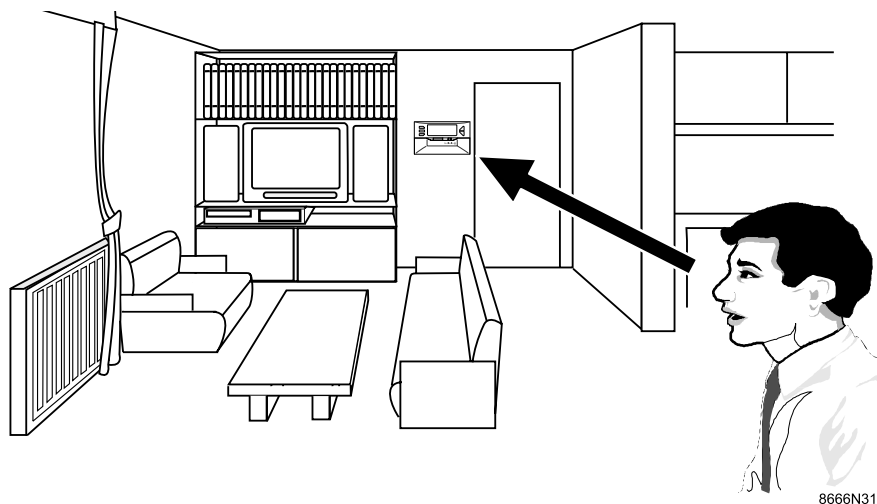
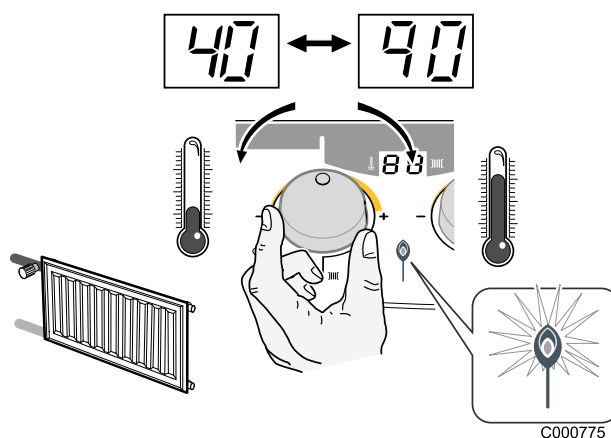
6.3 Incidents and solutions

i Checks to make before calling your fitter

6.3.1 The burner is not working

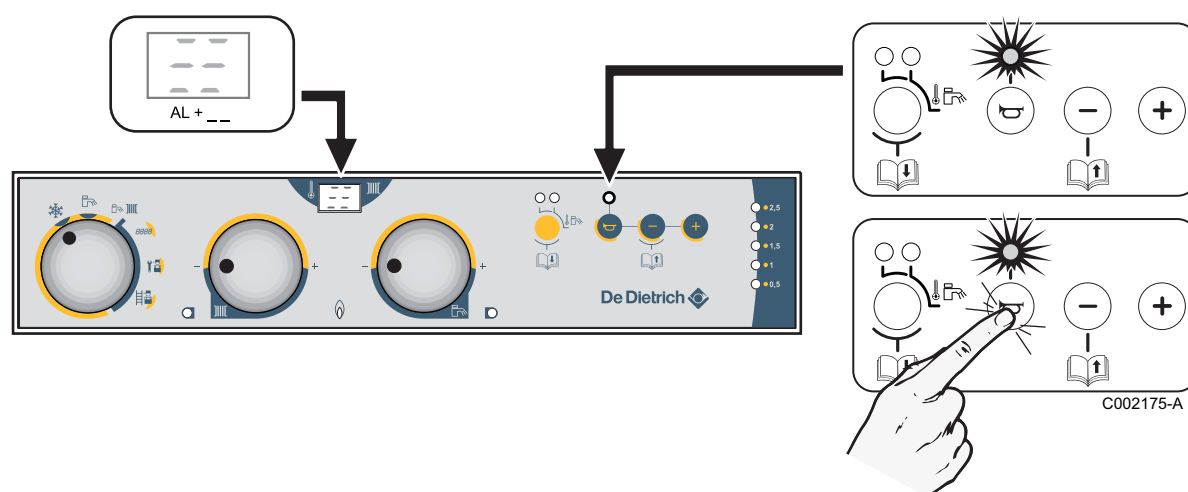
■ It is cold.

- ▶ Check the boiler thermostat settings.
- ▶ If using a room temperature thermostat or a remote control (Easymatic or Easyradio), check that it is set according to the instructions.



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■ It is cold. There is no domestic hot water

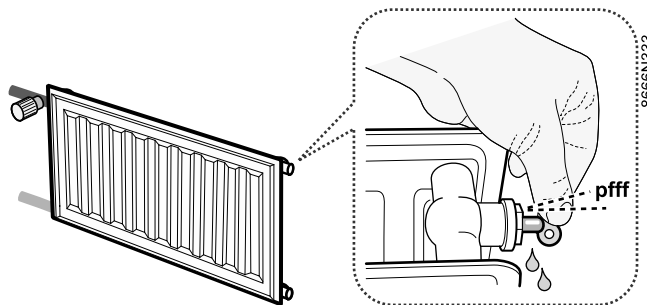


- ▶ Note the code displayed **AL + _ _**.
- ▶ Press button **Q** (hand icon) until the red light goes out.
- ▶ Release the button. The boiler restarts.
- ▶ If there is a problem, contact your fitter, specifying the alarm code.

6.3.2 The burner is operating but the radiators are cold

■ Air and water noise in the radiators

- ▶ Bleed the radiators.
- ▶ Top up the heating circuit with water.
- ▶ If it is often necessary to top up the installation with water, contact your fitter.
- ▶ If the problem persists, consult your fitter.



■ The burner is operating but the radiators are cold

- ▶ Check that the boiler heating pump is operating correctly.
- ▶ If the problem persists, consult your fitter

6.3.3 The domestic hot water does not appear hot enough

■ Flow of water from the tap too high.

The higher the flow, the lower the temperature.

- ▶ Reduce the flow from the hot water tap.
- ▶ If several draw-off points are open at the same time, close one or other of the points.

6.3.4 Hot water takes a very long time to reach certain draw-off points and not others

This is due to the length of the hot water pipes between the draw-off points and the boiler.

The greater the length, the longer the time necessary for the hot water to replace the colder water in the pipes.

7 Technical characteristics

Boiler SGC 24 SOL				
General	Useful output 50 / 30 °C (heating and DHW modes)	Nominal output	kW	23.7
		Minimum output	kW	6.0
	Useful output 80 / 60 °C (heating and DHW modes)	Nominal output	kW	22.0
		Minimum output	kW	5.7
	Power input (heating and DHW modes)	Nominal output	kW	22.8
		Minimum output	kW	5.9
	Operating efficiency	80 / 60 °C (4)	%	107.8
		40 / 30 °C (4)	%	110.1
	Load and water temperature efficiency	100% Pn, Average temperature 70 °C	%	96.8
		30% Pn, Return temperature 30 °C	%	110
	Gas flow rate at Pn (15 °C- 1013 mbar)	Natural gas H (G20)	m ³ /h	2.41
		Natural gas L (G25)	m ³ /h	2.80
Characteristics of the heating circuit	Gas flow rate at Pn	Butane (G30)	Kg/h	1.79
	Maximum temperature (Safety thermostat cut-off)		°C	110
	Nominal water flow ($\Delta T = 20$ K)		l/h	1000
	Rated net head (1000 l/h)		mCE	1
	Flow temperature		°C	30 - 90
	Maximum pressure		bar	3
	Expansion vessel		l	12
	Initial pressure of the expansion vessel		bar	0.75
Characteristics of the domestic hot water circuit	Minimum operating pressure		bar	0.3
	Specific flow at $\Delta T = 30$ K (2) (3)		l/min	19
	Flow per hour at $\Delta T = 35$ K (1) (3)		l/h	560
Double coil hot water tank	Flow in 10 min at $\Delta T = 30$ K (2) (3)		l/10 mm	190
	Water content	Top up volume Aux V	l	100
		Solar volume Sun V	l	100
		Max operating pressure, DHW	bar	10
	Boiler heat exchanger	Maximum operating temperature	°C	90
		Water content	l	4.7
		Exchange surface	m ²	0.7
	Solar exchanger	Glycol water capacity	l	5.0
		Exchange surface	m ²	1.0
	Performance	Standby consumption $\Delta T = 45$ K, TotalV	kWh/24h	2.3
		Cooling constant Cr	Wh/24h L K	0.26
Diemasol A solar regulator	Ambient temperature		°C	0 - 40
	Storage temperature		°C	-20 - +70
	Range of measurement		°C	-40 - +250
	Max. current		A / V	4 / 250
	Power consumption		VA	about 2
Electrical specifications	Electrical connection		V / Hz / A	230 / 50 / 6
	Power consumption		W	1 - 134
	Insulation class		DIN 40050	IP 42 (IPX2D)
	Battery backup (Control panel)			2 years minimum

Boiler SGC 24 SOL			
Dimensions	Height	mm	1710
	Width	mm	600
	Depth	mm	657
	Shipping weight	kg	196

(1) Heat exchanger inlet temperature: 80 °C
Domestic hot water temperature: 45 °C

(3) Cold water temperature: 10 °C

(2) DHW setting: 60 °C
Average domestic hot water temperature: 40 °C
Boiler setting: 80 °C

8 Energy savings

8.1 Energy-saving advice

- ▶ Keep the room in which the boiler is installed well ventilated.
- ▶ Do not obstruct aeration grates (even partially). They help to reduce humidity in the home. The more humid a home, the more heating it consumes.
- ▶ Do not cover the radiators. Do not hang curtains in front of the radiators.
- ▶ Install reflector panels behind the radiators.
- ▶ Insulate pipes to prevent thermal losses and condensation.
- ▶ Turn heating off when airing a room (5 minutes a day is sufficient)
Avoid deregulating the thermostat. Place the start/stop switch on Off.
- ▶ Close the radiators in rooms not in use.
- ▶ Do not run hot (or cold) water pointlessly.
- ▶ Fit a water-saving shower head to save up to 40 energy.
- ▶ Take showers rather than baths. A bath consumes twice as much water and energy.
- ▶ Do not shut down heating completely if you are absent. Lower the thermostat by 3-4 °C.
- ▶ Use the sun's heat as much as possible.

8.2 Room thermostat and settings

The type of thermostat and its setting have a considerable influence on energy consumption.

A few tips:

- ▶ A modifiable thermostat, possibly in combination with thermostatic valve radiators, saves energy and offers considerable comfort. This combination allows you to set the temperature on each flow.
In the room in which the room thermostat is installed, do not fit thermostatic valve radiators.
- ▶ Completely closing and opening thermostatic valve radiators causes undesirable temperature fluctuations.
Open and close thermostatic valves in small steps.
- ▶ Lower the room thermostat when you air the rooms.
- ▶ When setting an hourly programmable thermostat, bear days when you are absent and holidays in mind.

Warranty

You have just purchased one of our appliances and we thank you for the trust you have placed in our products. Please note that your appliance will provide good service for a longer period of time if it is regularly checked and maintained. Your fitter and our customer support network are at your disposal at all times.

■ Warranty terms

Starting from the purchase date shown on the original fitter's invoice, your appliance has a contractual guarantee against any manufacturing defect.

The length of the guarantee is mentioned in the price catalogue.

The manufacturer is not liable for any improper use of the appliance or failure to maintain or install the unit correctly (the user shall take care to ensure that the system is installed by a qualified fitter). In particular, the manufacturer shall not be held responsible for any damage, loss or injury caused by installations which do not comply with the following:

- applicable local laws and regulations
- specific requirements relating to the installation, such as national and/or local regulations
- the manufacturer's instructions, in particular those relating to the regular maintenance of the unit
- the rules of the profession

The warranty is limited to the exchange or repair of such parts as have been recognised to be faulty by our technical department and does not cover labour, travel and carriage costs. The warranty shall not apply to the replacement or repair of parts damaged by normal wear and tear, negligence, repairs by unqualified parties, faulty or insufficient monitoring and maintenance, faulty power supply or the use of unsuitable fuel. Sub-assemblies such as motors, pumps, electric valves etc. are guaranteed only if they have never been dismantled.

■ France

The preceding dispositions are not exclusive of benefits for the purchaser of the legal guarantee as stated in Civil Code articles 1641 to 1648.

■ Poland

Warranty conditions are included in the warranty card.

■ Switzerland

The application of the warranty is subject to the terms and conditions of sale, delivery and warranty of the company marketing our products.

■ Belgium

The preceding dispositions about the contractual guarantee are not exclusive of profit if the need arises for the purchaser in Belgium of the applicable legal dispositions on hidden defects.

■ Italy

The duration of our warranty is shown on the certificate delivered with the appliance.

Our liability as manufacturer may not be invoked in respect of incorrect use of the appliance, incorrect or insufficient maintenance thereof, or incorrect installation of the appliance (you must therefore ensure that installation and maintenance operations are carried out respectively by a qualified professional and by an after sales service company).

The legislation laid down by European Directive 99/44/EEC, transposed by Legislative Decree No. 24 of 2 February 2002 published in O.J. No. 57 of 8 March 2002, continues to apply.

■ Russia

The foregoing provisions in no way affect the rights of the consumer, which are guaranteed by the legislation of the Russian Federation as regards hidden defects.

The terms and conditions of warranty and the terms and conditions of application of the warranty are indicated on the warranty form.

The warranty shall not apply as regards the replacement or repair of wearing parts under normal use. Such parts include thermocouples, injection nozzles, flame control and ignition systems, fuses and gaskets.

■ Turkey

Due to the laws and regulations the product life for this product is 10 years. During that time the producer and/or the distributor has to provide after sales services and spare parts.

■ Other countries

The above provisions do not restrict the benefit of the legal laws regarding hidden defects applicable in the buyer's country.

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Subject to alterations.

15/10/2009



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